Art Unit: 1641

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Claim 1(original)

Claim 1. Claim 1. A biopolymer marker having the sequence ID SSKITHRIHWESAS.(R useful in indicating at least one particular disease state.

Claim 2(original)

Claim 2. The biopolymer marker of claim 1 wherein said disease state is congestive heart failure.

3. (New) A method for evidencing and categorizing at least one disease state comprising:

obtaining a sample from a patient;

Art Unit: 1641

conducting mass spectrophotometric analysis on said sample;
evidencing and detegorizing at least one biopolymer marker
sequence or analyte thereof isolated from said sample; and,

comparing said at least one isolated biopolymer marker sequence or analyte thereof to the biopolymer marker sequence as set forth in claim \mathbf{I} :

wherein correlation of said isolated biopolymer marker and said biopolymer marker sequence as set forth in claim 1 evidences and categorizes said at least one disease state.

- 4. (New) The method of claim 3, wherein said step of evidencing and categorizing is particularly directed to biopolymer markers or analytes thereof linked to at least one risk of disease development of said patient.
- 5. (New) The method of claim 3, wherein said step of evidencing and categorizing is particularly directed to biopolymor markers or analytes thereof related to the existence of a particular disease state.
- 6. (New) The method of claim 3, wherein the sample is an unfractionated body fluid or a tissue sample.

Art Unit: 1641

7. (New) The method of claim 3, whorein baid sample is at least one of the group consisting of blood, blood products, urine, saliva, derebrospinal fluid, and lymph.

- 8. (New) The method of claim 3, wherein said mass spectrophotometric analysis is Surface Enhanced Laser Description tomization (SELDI) mass spectrometry (MS).
- 9. (New) The method of claim 3, wherein said patient is a homan.
- 10. (New) A diagnostic assay kit for determining the presence of the biopolymer marker or analyte thereof of claim 1 comprising:

at least one biochemical material which is capable of specifically binding with a biomolecule which includes at least said biopolymer marker or analyte thereof, and

means for determining binding between said biochemical material and said biomolecule.

- 11. (New) The diagnostic assay kit of claim 10, wherein said biochemical material or biomolecule is immobilized on a solid support.
- 12. (New) The diagnostic assay kit of claim 10 including: at least one labeled biochemical material.

Art Unit: 1641

- 13. (New) The diagnostic assay kit of claim 10, wherein said biochemical material is an antibody.
- 14. (New) The diagnostic assay kit of claim 12, wherein said labeled biochemical material is an antibody.
- 15. (New) The diagnostic assay kit of claim 10, wherein the sample is an unfractionated body fluid or a tissue sample.
- 16. (New) The diagnostic assay kit of claim 10, wherein said sample is at least one of the group consisting of blood, blood products, urine, saliva, cerebrospinal fluid, and lymph.
- 17. (New) The diagnostic assay kit of claim 10, wherein said marker includes the sequence ID SSKITHRIHWESASELR and said biochemical material is at least one monoclonal antibody specific therefore.
- 18. (New) A kit for diagnosing, determining risk-assessment, and identifying therapeutic avenues related to a disease state comprising:
- at least one biochemical material which is capable of specifically binding with a biomolecule which includes at least one biopolymer marker including the sequence ID SSKITHRIENESASLLR or an analyse thereof related to said disease state; and

Art Unit: 1641

means for determining binding between said biochemical material and said biomolecule;

whereby at least one analysis to determine a presence of a marker, analyte thereof, or a biochemical material specific thereto, is carried out on a sample.

- 19. (New) The kit of claim 18, wherein said biochemical material or biomolecule is immobilized on a solid support.
- 20. (New) The kit of claim 18 including: at least one labeled biochemical material.
- 21. (New) The kit of claim 18, wherein said blochemical material is an antibody.
- 22. (New) The kit of claim 20, wherein said labeled biochemical material is an antibody.
- 23. (New) The kit of claim 18, wherein the sample is an unfractionated body fluid or a tissue sample.
- 24. (New) The kit of claim 18, wherein said sample is at least one of the group constating of blood, blood products, urite, saliva, cerebrospinal fluid, and lymph.

Art Unit: 1641

25. (New) The kit of claim 1B, wherein said marker includes the sequence ID SSKITHRIHWESASLER or at least one analyte thereof and said biochemical material is at least one monoclanal antibody specific therefore.

26. (New) The kit of claim 18, wherein said diagnosing, determining risk assessment, and identifying therapeutic evenues is carried out on a single sample.

27. (New) The kit of claim 18, wherein said diagnosing, determining risk assessment, and identifying therapeutic avenues is carried out on multiple samples such that at least one analysis is carried out on a first sample and at least another analysis is carried out a second sample.

- 28. (New) The kit of claim 27, wherein said first and second samples are obtained at different time periods.
- 29. (New) Polyclonal antibodies produced against the marker sequence (D SSKITHRIBNESASLLR in at least one animal host.
- 30. (New) An antibody that specifically binds a piopolymes including the marker sequence (C SSKITHRIHWESABLER or at least one analyte thereof.

Art Unit: 1641

- 31. (New) The antibody of claim 30 that is a monoclonal antibody.
- 32. (New) The antibody of claim 30 that is a polyclonal antibody.
- 33. (New) A process for identifying therapeutic avenues related to a disease state comprising:

conducting an analysis as provided by the kit of claim 18; and interacting with a biopolymer including the sequence ID SSKIFHRIEWESASLER or at least one analyte thereof;

whereby therapeutic avenues are developed.

- 34. (New) The process for identifying therapeutic avenues related to a disease state in accordance with claim 33, wherein said therapeutic avenues regulate the presence or absence of the biopolymer including the sequence ID SSKITHRHHWESASLLE or at least one analyte thereof.
- 35. (NeW) A process for regulating a discase state by controlling the presence or absence of a biopolymer including the sequence ID $^{\times}$ SSKITERIHWEGASLER or at least one analyte thereof.